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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 34

**Complete if Known**

Application Number	10/567,157-Conf. #4222
Filing Date	June 1, 2006
First Named Inventor	Roberto Angelo Motterlini
Art Unit	1614
Examiner Name	A. A. Lewis
Attorney Docket Number	H0817.70003US00

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	*	US-7,045,140	05-16-2006	Motterlini et al.	
	*	US-7,011,854	03-14-2006	Haas et al.	
	*	US-6,673,908	01-06-2004	Stanton, Jr.	
	*	US-6,645,938	11-11-2003	Oeltgen et al.	
	*	US-6,518,269	02-11-2003	Camden et al.	
	*	US-6,417,182	07-09-2002	Abrams et al.	
	*	US-6,350,752	02-26-2002	Glasky et al.	
	*	US-6,344,178	02-05-2002	Alberto et al.	
	*	US-6,338,963	01-15-2002	Glasky et al.	
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	*	US-6,284,752	09-04-2001	Abrams et al.	
	*	US-6,251,927	06-26-2001	Lai et al.	
	*	US-6,242,432	06-05-2001	del Soldato	
	*	US-6,218,417	04-17-2001	Del Soldato	
	*	US-6,211,233	04-03-2001	Del Soldato	
	*	US-6,203,991	03-20-2001	Nabel et al.	
	*	US-6,177,471	01-23-2001	Menander et al.	
	*	US-6,066,333	05-23-2000	Willis et al.	
	*	US-6,060,467	05-09-2000	Buelow et al.	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		EP-0076493-A2	04-13-1983	Dragoco Gerberding Co. GmbH		✓
		FR-2816212-A1	05-10-2002	Air Liquide Sante Int		✓
		GB-0111872.8-A	07-03-1968	Northwick Park Institute for Medical Research		
		GB-0227135.1-A	04-13-1994	Northwick Park Institute for Medical Research		
		GB-0227138.5-A	04-13-1994	Northwick Park Institute for Medical Research		
		GB-1107510-A	03-27-1968	Merck & Co. Inc		

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	*	US-6,051,576	04-18-2000	Ashton et al.	
	*	US-6,040,341	03-21-2000	Del Soldato et al.	
	*	US-6,027,936	02-22-2000	Glasky	
	*	US-6,025,394	02-15-2000	Menander et al.	
	*	US-5,891,689	04-06-1999	Takle et al.	
	*	US-5,888,982	03-30-1999	Perrella et al.	
	*	US-5,885,621	03-23-1999	Head et al.	
	*	US-5,882,674	03-16-1999	Herrmann et al.	
	*	US-5,861,426	01-19-1999	Del Soldato et al.	
	*	US-5,824,673	10-20-1998	Abrams et al.	
	*	US-5,811,463	09-22-1998	Legzdins et al.	
	*	US-5,801,184	09-01-1998	Glasky et al.	
	*	US-5,767,157	06-16-1998	Van Moerkerken	
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	*	US-5,670,664	09-23-1997	Kao et al.	
	*	US-5,664,563	09-09-1997	Schroeder et al.	
	*	US-5,659,027	08-19-1997	Spielvogel et al.	
	*	US-5,631,284	05-20-1997	Legzdins et al.	

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		GB-2395431-A	05-26-2004	Northwick Park Institute for Medical Research		
		GB-2395432-A	05-26-2004	Northwick Park Institute for Medical Research		
		HU-211084-A2	12-30-1991	Brezo Magdolna et al.		
		HU-57595-A2	12-30-1991	Magdolna et al.		√
		WO-85/04326-A1	10-10-1985	Biocompatibles Ltd		
		WO-91/01128-A1	02-07-1991	Eastman Kodak Co		

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	*	US-5,621,000	04-15-1997	Arena et al.	
	*	US-5,447,939	09-05-1995	Glasky et al.	
	*	US-5,350,767	09-27-1994	Hallberg et al.	
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	*	US-5,086,060	02-04-1992	Haley et al.	
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	*	US-4,938,949	07-03-1990	Borch et al.	
	*	US-4,709,083	11-24-1987	Spielvogel	
	*	US-4,699,903	10-13-1987	Rideout et al.	
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	*	US-4,657,902	04-14-1987	Kappas et al.	
	*	US-4,649,151	03-10-1987	Dougherty et al.	
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	*	US-4,189,487	02-19-1980	Klosa	
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	*	US-3,812,166	05-21-1974	Wiechert	
	*	US-3,694,232	09-26-1972		
	*	US-3,278,570	10-11-1966	Wilkinson et al.	

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		WO-91/01301-A1	02-07-1991	Eastman Kodak Co		
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		WO-92/04905-A1	04-02-1992	Abraham et al.		
		WO-94/22482-A1	10-13-1994	Biorelease Tech Inc		
		WO-95/005814	03-02-1995	Johnson Matthey Public Limited Company		
		WO-95/009831	04-13-1995	Nicox S.A.		

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	*	US-2,870,180	01-20-1959	Kozikowski et al.	
	*	US-2008-0026984	01-31-2008	De Matos et al.	
	*	US-2007-0219120	09-20-2007	De Matos et al.	
	*	US-2007-0207993	09-06-2007	Haas et al.	
	*	US-2007-0207217	09-06-2007	Haas et al.	
	*	US-2006-0233890	10-19-2006	Haas et al.	
	*	US-2006-0148900	07-06-2006	Haas et al.	
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	*	US-2005-0175555	08-11-2005	Stradi et al.	
	*	US-2005-0048133	03-03-2005	Pinsky et al.	
	*	US-2004-0228930	11-18-2004	Billiar et al.	
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	*	US-2004-0143025	07-22-2004	Buelow et al.	
	*	US-2004-0131602	07-08-2004	Buelow et al.	
	*	US-2004-0067261	04-08-2004	Haas et al.	
	*	US-2004-0052866	03-18-2004	Otterbein et al.	
	*	US-2003-0219497	11-27-2003	Otterbein et al.	

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		WO-96/003125	02-08-1996	NeoTherapeutics		
		WO-96/009038	03-28-1996	William Harvey Research Limited		
		WO-97/16405-A1	05-09-1997	Nicox S.A.		
		WO-97/36615-A1	10-09-1997	President and Fellows of Harvard College		
		WO-97/37644-A1	10-16-1997	The General Hospital Corp.		
		WO-98/09618-A2	03-12-1998	Sangstat Medical Corporation		

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	*	US-2003-0219496	11-27-2003	Otterbein et al.	
	*	US-2003-0207786	11-06-2003	Miracle et al.	
	*	US-2003-0157154	08-21-2003	Fuller et al.	
	*	US-2003-0124157	07-03-2003	Engles et al.	
	*	US-2003-0068387	04-10-2003	Buelow et al.	
	*	US-2003-0064114	04-03-2003	Motterlini et al.	
	*	US-2003-0039638	02-27-2003	Bach et al.	
	*	US-2002-2045611	04-18-2002	Bridger et al.	
	*	US-2002-0193363	12-19-2002	Bridger et al.	
	*	US-2002-0165242	11-07-2002	Glasky et al.	
	*	US-2002-0155166	10-24-2002	Choi et al.	

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		WO-98/29115-A1	07-09-1998	Univ British Columbia		
		WO-98/38179-A1	09-03-1998	Glaxo Group Limited		
		WO-98/48848-A1	11-05-1998	Mallinckrodt Medical Inc et al.		
		WO-99/67231-A1	12-29-1999	Nicox S.A.		
		WO-00/36113-A2	06-22-2000	Sangstat Medical Corporation		
		WO-00/56145-A1	09-28-2000	Univ James Cook et al.		

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		WO-00/61537-A2	10-19-2000	Nicox S.A.	
		WO-00/10613-A2	03-02-2000	The Regents of the University of Michigan	
		WO-01/12584-A2	02-22-2001	Nicox S.A.	
		WO-01/16359-A2	03-08-2001	Univ London et al.	
		WO-01/28545-A2	04-26-2001	NeoTherapeutics	

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		WO-03/094932-A1	11-20-2003	Univ Yale et al.		
		WO-03/096977-A2	11-27-2003	Yale University		
		WO-03/103585-A2	12-18-2003	Yale University		
		WO-2004/029033-A1	04-08-2004	Kao Corporation		

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				Application Number	10/567,157-Conf. #4222
				Filing Date	June 1, 2006
				First Named Inventor	Roberto Angelo Motterlini
				Art Unit	1614
				Examiner Name	A. A. Lewis
				Attorney Docket Number	H0817.70003US00
Sheet	9	of	34		

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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		WO-2004/043341-A2	05-27-2004	University of Pittsburgh of The Commonwealth System of Higher Education		
		WO-2004/045598-A1	06-03-2004	Hemocorm Limited		
		WO-2004/045599-A1	06-03-2004	Hemocorm Limited		
		WO-2004/080420-A2	09-23-2004	Mota et al.		
		WO-2005/090400-A1	09-29-2005	The University Court of the University of Glasgow		
		WO-2006/012215-A1	02-02-2006	Flexitral, Inc.		

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		WO-2007/073226-A1	06-28-2007	Alfama - Investigação E Desenvolvimento De Produtos Farmacêuticos Lda	
		WO-2007/085806-A2	08-02-2007	Hemocorm Ltd et al.	
		WO-2008/003953-A2	01-10-2008	Hemocorm Ltd et al.	
		WO-2008/069688-A2	06-12-2008	Alfama - Investigação E Desenvolvimento De Produtos Farmacêuticos Lda	
		WO-2008/130261-A1	10-30-2008	Alfama Investigacao E Desenvol et al.	
		WO-2009/013612-A1	01-29-2009	Alfama Investigacao E Desenvol et al.	

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		[No Author Listed] "supramolecule" IUPAC compendium of chemical terminology. Retrieved from the internet at <a href="http://www.iupac.org/goldbook/SO6153.pdf">www.iupac.org/goldbook/SO6153.pdf</a> on May 8, 2006.	
		[No Author Listed] Biosis Chem Abstracts Database. Accession No. PREV200600414130. 2005. Otterbein et al., Cell Mol Biol (Noisy-le-grand). 2005 Oct 3;51(5):433-40. Abstract.	
		[No Author Listed] Chemical Abstracts. 2002;137:119662. (FR2816212)	
		[No Author Listed] Chemical Abstracts. 2004;140:40075. (WO2004/043341)	
		[No Author Listed] Chemical Abstracts. 2004;141:270758. (Ryter et al.)	
		[No Author Listed] Chemical Abstracts. 2004;142:211995. (Stein et al.)	
		ABEL et al., Anionic halogenopentacarbonyls of chromium, molybdenum, and tungsten. J Chem Soc. 1963:2068-70.	
		ABEL et al., Carbonyl halides of manganese and some related compounds. J Chem Soc. 1959;Part 2:1501-5.	
		ABEL et al., Reaction of molybdenum carbonyl with various halides: a potassium etherate salt. Chem Indust. 1960;442.	
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		AKAMATSU et al., Heme oxygenase-1-derived carbon monoxide protects hearts from transplant associated ischemia reperfusion injury. FASEB J. 2004 Apr;18(6):771-2. Epub 2004 Feb 20.	
		ALESSIO et al., Carbonyl Derivatives of Chloride-Dimethyl Sulfoxide-Ruthenium(II) Complexes: Synthesis, Structural Characterization, and Reactivity of Ru(CO) <sub>x</sub> (DMSO) <sub>4-x</sub> Cl <sub>2</sub> Complexes (x = 1-3). Inorg Chem. 1995;34(19):4722-34.	
		ALESSIO et al., Carbonyl Derivatives of Chloride-Dimethyl Sulfoxide-Ruthenium(III) Complexes: Synthesis, Crystal Structure, and Reactivity of [(DMSO)2H][trans-RuCl <sub>4</sub> (DMSO-O)(CO)] and mer,cis-RuCl <sub>3</sub> (DMSO-O)2(CO). Inorg Chem. 1995;34(19):4716-21.	
		ALLANSON et al., Ultraviolet A (320-400 nm) modulation of ultraviolet B (290-320 nm)-induced immune suppression is mediated by carbon monoxide. J Invest Dermatol. 2005 Mar;124(3):644-50.	
		ALLARDYCE et al., Development of organometallic (organo-transition metal) pharmaceuticals. Appl Organomet Chem. 2005;19:1-10.	
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		ANDREADIS et al., Oxidative and nitrosative events in asthma. Free Radic Biol Med. 2003 Aug 1;35(3):213-25. Review. Abstract only.	
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		BAGUL et al., Carbon monoxide protects against ischemia-reperfusion injury in an experimental model of controlled nonheartbeating donor kidney. Transplantation. 2008 Feb 27;85(4):576-81.	
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		BANNENBERG et al., Therapeutic applications of the gaseous mediators carbon monoxide and hydrogen sulfide. Expert Opin Ther Pat. 2009 May;19(5):663-82. Review.	
		BARKOUDAH et al., The permissive role of endothelial NO in CO-induced cerebrovascular dilation. Am J Physiol Heart Circ Physiol. 2004 Oct;287(4):H1459-65. Epub 2004 Jun 10.	
		BAUEROVÁ et al., Role of reactive oxygen and nitrogen species in etiopathogenesis of rheumatoid arthritis. Gen Physiol Biophys. 1999 Oct;18 Spec No:15-20. Review. Abstract only.	
		BEAL, Oxidatively modified proteins in aging and disease. Free Radic Biol Med. 2002 May 1;32(9):797-803. Review. Abstract only.	
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		BOISSIERE et al., Exercise and vasorelaxing effects of CO-releasing molecules in hypertensive rats. Med Sci Sports Exerc. 2006 Apr;38(4):652-9.	
		BOTROS et al., Interaction between endogenously produced carbon monoxide and nitric oxide in regulation of renal afferent arterioles. Am J Physiol Heart Circ Physiol. 2006 Dec;291(6):H2772-8. Epub 2006 Jul 14.	
		BROOKS et al., The spoilage characteristics of ground beef packaged in high-oxygen and low-oxygen modified atmosphere packages. Proc. Reciprocal Meat Conference. University of Illinois at Urbana-Champaign. 2006.	
		BUNDGAARD et al., Pro-drugs as delivery systems. Pharm Int. 1981;2:136-40.	
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		CHAKRAVORTTY et al., Inducible nitric oxide synthase and control of intracellular bacterial pathogens. Microbes Infect. 2003 Jun;5(7):621-7. Review. Abstract only.	

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		CHATTERJEE, Water-soluble carbon monoxide-releasing molecules: helping to elucidate the vascular activity of the 'silent killer'. Br J Pharmacol. 2004 Jun;142(3):391-3. Epub 2004 May 17.	
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		DE BACKER et al., Role of the soluble guanylyl cyclase alpha1/alpha2 subunits in the relaxant effect of CO and CORM-2 in murine gastric fundus. Naunyn Schmiedebergs Arch Pharmacol. 2008 Nov;378(5):493-502. Epub 2008 Jun 18.	
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		DRÖGE, Free radicals in the physiological control of cell function. Physiol Rev. 2002 Jan;82(1):47-95. Review.	

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		DUCHÊNE et al., Cyclodextrins in targeting. Application to nanoparticles. Adv Drug Deliv Rev. 1999 Mar 1;36(1):29-40.	
		EL-SAYED et al., Catalysis by crown ether complexes - part III effect of cation on the catalytic activity of crown ether - alkali metal halide complexes in the liquid phase oxidation of ethylbenzene. Egypt J Chem. 1979;22(1):23-8.	
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				First Named Inventor	Roberto Angelo Motterlini
				Art Unit	1614
				Examiner Name	A. A. Lewis
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		FISCHER, Crystal structure of 1,4,7,10,13-pentaoxacyclopentadecane sodium bromide, C <sub>10</sub> H <sub>20</sub> BrNaO <sub>5</sub> . Zeitschrift fur kristallographie. 1996;2001:827-8.	✓
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		GORDEUK et al., Carbonyl iron therapy for iron deficiency anemia. Blood. 1986 Mar;67(3):745-52.	
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		HIEBER et al., Derivate des Mangancarbonyls mit schwefelorganischen Liganden. Chemische Berichte. 1966;99(7):2312-21.	✓
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